```
println("Would you like to sort in ascending or descending order?");

sortOrder = k.nextLine();
double placeholder;
int repeat = 0;


boolean isValid = false;
while(isValid == false)
{
    //if the if statement is triggered, it sorts the areas in ascending order
    if(sortOrder.equals("Ascending") || sortOrder.equals("ascending"))
    {
        println("The areas of your rectangles, in ascending order, is ");

        while(repeat == 0)
        {
            repeat = 1;

            for(int i = 0; i < rectangleArray.length - 1; i++)
            {
                if(rectangleArray[i] > rectangleArray[i + 1])
                {
                    placeholder = rectangleArray[i + 1];
                    rectangleArray[i + 1] = rectangleArray[i];
                    rectangleArray[i] = placeholder;
                    repeat = 0;
                }
            }
        }
        for(int i = 0; i < arraySize; i++)
        {
            println(rectangleArray[i]);
        }

        isValid = true;
    //if this else if statement is triggered it orders the areas in descending order
    } else if(sortOrder.equals("Descending") || sortOrder.equals("descending"))
    {
        println("The areas of your rectangles, in descending order, is ");
```